

Symphon·Ξ

Configuration Manual — KACO PV Inverter

Version:2025.1.1

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1. Introduction

1. Introduction

These instructions are used to configure the following KACO PV inverters:

TL3 series

- blueplanet 3.0 TL3 - 10.0 TL3
- blueplanet 15.0 TL3 + 20.0 TL3
- blueplanet 29.0 TL3 LV
- blueplanet 50.0 TL3
- blueplanet 60.0 TL3
- blueplanet 87.0 TL3 - 125 TL3
- blueplanet 125 TL3 - 165 TL3

2. Configuration

To integrate into the Heckert Solar Energy Management System (FEMS), please make the following settings on your KACO inverter of the [TL3 series]:

TL3 series

1. **Settings** ⓘ **Network**
2. **Network** ⓘ **DHCP**: Set to **Off** so that DHCP is disabled (This setting is necessary to ensure that the inverter can always be reached at the same IP address through the EMS).
3. **Network** ⓘ **IP address**: Set an unused IP address in the address range of the router.
4. **Network** ⓘ **Subnet mask**: Set the subnet mask used in the network (default: 255.255.255.0)
5. **Network** ⓘ **Gateway**: Set the IP address of the router as the gateway.
6. **Network** ⓘ **Modbus TCP**: Set the operating mode to **On** to activate the Modbus/TCP interface.
7. **Network** ⓘ **Modbus TCP**: Set the port to **502** (default setting).



The Modbus unit ID in the KACO PV inverter app must be set to '3'.

3. Ping test

To test the configuration, we recommend pinging the inverter in the local customer network.

In the example below, the IP address 192.168.188.40 was set for the inverter in the configuration.

```
PING 192.168.188.40 (192.168.188.40) 56(84) bytes of data.  
64 bytes from 192.168.188.40: icmp_seq=1 ttl=64 time=3.23 ms  
64 bytes from 192.168.188.40: icmp_seq=2 ttl=64 time=1.89 ms  
64 bytes from 192.168.188.40: icmp_seq=3 ttl=64 time=3.08 ms  
64 bytes from 192.168.188.40: icmp_seq=4 ttl=64 time=0.889 ms  
  
--- 192.168.188.40 ping statistics ---  
4 packets transmitted, 4 received, 0% packet loss, time 6ms  
rtt min/avg/max/mdev = 0.889/2.273/3.229/0.952 ms
```

If the inverter cannot be reached via ping, check the settings in the [Configuration](#).

4. Contact

4. Contact

For support, please contact:

Symphon-E Service

Telephone service: +49 (0) 371 45 85 68 - 100

E-mail service: symphon-e@heckert-solar.com

5. Directories

5.1. List of illustrations